

**Defense Information Infrastructure (DII)**

**Common Operating Environment (COE)**

**Installation Procedures (IP) for  
the Kernel Version 3.2.0.0 Patch 1 (Windows NT 4.0)**

**Document Version 1.0**

**November 14, 1997**

**Prepared for:**

**Defense Information Systems Agency**

**Prepared by:**

**Inter-National Research Institute (INRI)  
12200 Sunrise Valley Drive, Suite 300  
Reston, Virginia 20191**



## Table of Contents

1.	Scope .....	1
1.1	Identification .....	1
1.2	System Overview .....	1
2.	Referenced Documents .....	2
3.	System Environment .....	3
3.1	System Requirements .....	3
3.1.1	Hardware Components .....	3
3.1.2	Operating System Requirements .....	3
3.1.3	Kernel Requirements .....	4
3.2	System and Site Preparations .....	4
3.2.1	System Configuration .....	4
3.2.2	Operating System Preparation .....	4
3.2.3	Tape/Disk Preparation .....	4
4.	Installation Instructions .....	4
4.1	Media Booting Procedures .....	4
4.2	Installation Procedures .....	5
4.3	Installation of Upgrades .....	10
4.4	Installation Verification .....	10
4.5	Initializing the Software .....	10
4.6	List of Changes and Enhancements .....	10
4.7	Important Considerations .....	10
5.	Notes .....	11

## List of Figures

Figure 1.	DII COE Installer Window .....	6
Figure 2.	Required Segments Window .....	7
Figure 3.	Release Notes Window .....	8
Figure 4.	Disk Space Override Window .....	8
Figure 5.	Installation Log Window .....	9

This page intentionally left blank.

# 1. Scope

## 1.1 Identification

This Installation Procedures (IP) Manual describes how to install the Defense Information Infrastructure (DII) Common Operating Environment (COE) Kernel Version 3.2.0.0 Patch 1 (Windows NT 4.0). The DII COE Kernel Version 3.2.0.0 Patch 1 is intended to be used on hardware running the Windows NT Operating System Version 4.0 and the DII COE Kernel Version 3.2.0.0 Patch 1.

**NOTE:** Throughout this document, `courier` font is used to indicate entries to be typed at the keyboard, NT commands, file and directory names, and screen text. For example:

The file is located in the `DII_DEV` directory.

## 1.2 System Overview

The Defense Information Infrastructure (DII) Common Operating Environment (COE) will normally make available a large number of segments, not all of which are required for every application. The DII COE Kernel is the minimum set of software required on every workstation regardless of how the workstation will be used.

The DII COE Kernel for the Windows NT environment includes the following components:

**COEAskUser runtime tool Version 1.0.0.9**—This tool is intended for use in the PostInstall script to display a message to the user and to have the user click on a Yes or No button. The parameters allow the calling routine to specify the labels to be used for the Yes/No buttons.

**COEFindSeg runtime tool Version 1.0.0.9**— This tool returns information about a requested segment.

**COEInstaller runtime tool Version 1.0.0.12**—This tool is used to support the segment installation process. The COEInstaller tool displays a list of segments that may be installed from a mapped drive, floppy diskette, or CD-ROM. The COEInstaller tool normally is executed by an operator who selects it from the `DII Administrator` program manager group.

**COEInstError runtime tool Version 1.0.0.9**— This tool allows a segment to display an error message to the user from within a PreInstall, PostInstall, or DeInstall script and terminate installation processing for the segment.

**COEMsg runtime tool Version 1.0.0.9**— This tool is intended to be used by PreInstall, PostInstall, and DeInstall scripts to have an informational message displayed to the user.

**COEPrompt runtime tool Version 1.0.0.9**— This tool is intended to be used by PreInstall, PostInstall, or DeInstall scripts to have an informational message/query displayed to the user and have the user respond.

**COEPromptPasswd runtime tool Version 1.0.0.9**— This tool is intended to be used in PreInstall and PostInstall scripts to prompt a user to enter a password.

The *DII COE Integration and Runtime Specification* and the *DII COE System Administrator's Guide (Windows NT 4.0)* provide a description of the COEInstaller tool and its functionality.

For DII COE Kernel Version 3.2.0.0 Patch 1 related issues, contact the DII COE Hotline at the OSF Support Center (OSC) by one of the following methods:

- Telephone (703) 735-8681
- Facsimile (703) 735-3080
- Web site: <http://spider.osfl.disa.mil/dii/hotline/index.html>.

## 2. Referenced Documents

The following documents are referenced in this installation guide:

- DII COE I&RTS:Rev 2.0, *Defense Information Infrastructure (DII) Common Operating Environment (COE) Integration and Runtime Specification Version 2.0*, October 23, 1995
- DII.3200.NT40.AG-1, *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.2.0.0 System Administrator's Guide (Windows NT 4.0)*, June 13, 1997.
- DII.3200.NT40.Kernel.IG-1, *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.2.0.0 Kernel Installation Guide (Windows NT 4.0)*, June 13, 1997
- DII.3200.NT40.DTK.3201.SVD-1, *Defense Information Infrastructure (DII) Common Operating Environment (COE) Software Version Description for Developer's Toolkit Version 3.2.0.1 (Windows NT 4.0)*, Document Version 1.0, November 14, 1997.

### 3. System Environment

This section describes the system requirements and the system and site preparation.

#### 3.1 System Requirements

This section describes DII COE hardware components, Windows NT 4.0 Operating System components, and DII COE Kernel components for the Windows NT 4.0 Operating System.

##### 3.1.1 Hardware Components

The following hardware components are required. The software may reside on a single hard disk or across multiple hard disks.

**Personal computer.** An 80486 personal computer or higher.

**Memory.** At least 16 megabytes (MB) of random access memory (RAM) (12 MB minimum is required for Windows NT).

**Source devices.** CD-ROM drive to load the operating system; a 3.5-inch high-density floppy drive to load the software.

**Disk space for the operating system, runtime and temporary files, swap space, and tools.** Recommend 200 MB free hard disk space distributed approximately as follows:

Windows NT 4.0 Operating System	125 MB
DII COE runtime files	1.5 MB
Swap space and temporary files	40 MB (recommended)
DII COE Tools	2.5 MB (developers only)

**Disk space for segments and data.** Recommend 500 MB free hard disk space for segments and data.

##### 3.1.2 Operating System Requirements

The following Windows NT Operating System is required:

Windows NT 4.0 Operating System CD-ROM.

### **3.1.3 Kernel Requirements**

The DII COE Kernel Version 3.2.0.0 Patch 1 requires the DII COE Kernel 3.2.0.0 Patch 1 (Windows NT 4.0) disk, and the DII COE Kernel Version 3.2.0.0 (Windows NT 4.0). The DII COE Kernel is a suite of applications layered on top of the NT 4.0 Operating System.

## **3.2 System and Site Preparations**

This section describes the system configuration, operating system preparation, and the disk preparation.

### **3.2.1 System Configuration**

The DII COE Kernel Version 3.2.0.0 Patch 1 (Windows NT 4.0) diskette is a patch segment and must be installed after the Windows NT 4.0 Operating System and the DII COE Kernel Version 3.2.0.0 (Windows NT 4.0) have been installed. Reference the *DII COE Kernel Version 3.2.0.0 Installation (Windows NT 4.0)* for instructions on installing the Windows NT Operating System and the DII COE kernel.

### **3.2.2 Operating System Preparation**

Windows NT 4.0 Operating System configuration setting is necessary for the installation of the DII COE Kernel Version 3.2.0.0 Patch 1.

### **3.2.3 Tape/Disk Preparation**

One 3.5" floppy diskette containing the DII COE Kernel Version 3.2.0.0 Patch 1 for Windows NT 4.0 is required. Ensure that the hard disk has enough memory to install the DII COE Kernel Version 3.2.0.0 Patch 1, which is 1.5 MB.

## **4. Installation Instructions**

This section describes the media booting procedures, the installation procedures, installation of upgrades, installation verification, initializing software, list of changes and enhancements, and important considerations.

### **4.1 Media Booting Procedures**

Not applicable.



## 4.2 Installation Procedures

Follow the steps below to install the DII COE Kernel Version 3.2.0.0 Patch 1 segment. Reference the *DII COE System Administrator's Guide (Windows NT 4.0)* for more information about installing segments.

- STEP 1: **Access the DII Installer icon.** Click on the Windows Start button, point to Programs, point to the System Administration group, and click on the DII Installer icon. The DII COE Installer window appears.
- STEP 2: **Insert the patch diskette.** Insert the patch diskette into the floppy drive.
- STEP 3: **Select the installation device.** Click on the 'Source Drive' icon (containing an icon of a diskette). Using the mouse or the arrow keys, select the installation source.
- STEP 4: **Read the contents of the selected installation device.** Click on the Read TOC button (containing an icon of an open folder with an icon in the top-right corner). The media will be scanned, and the DII COE Kernel Version 3.2.0.0 Patch 1 segment will appear in the 'Installation Segments' panel of the 'DII COE Installer' window, as shown in Figure 1.

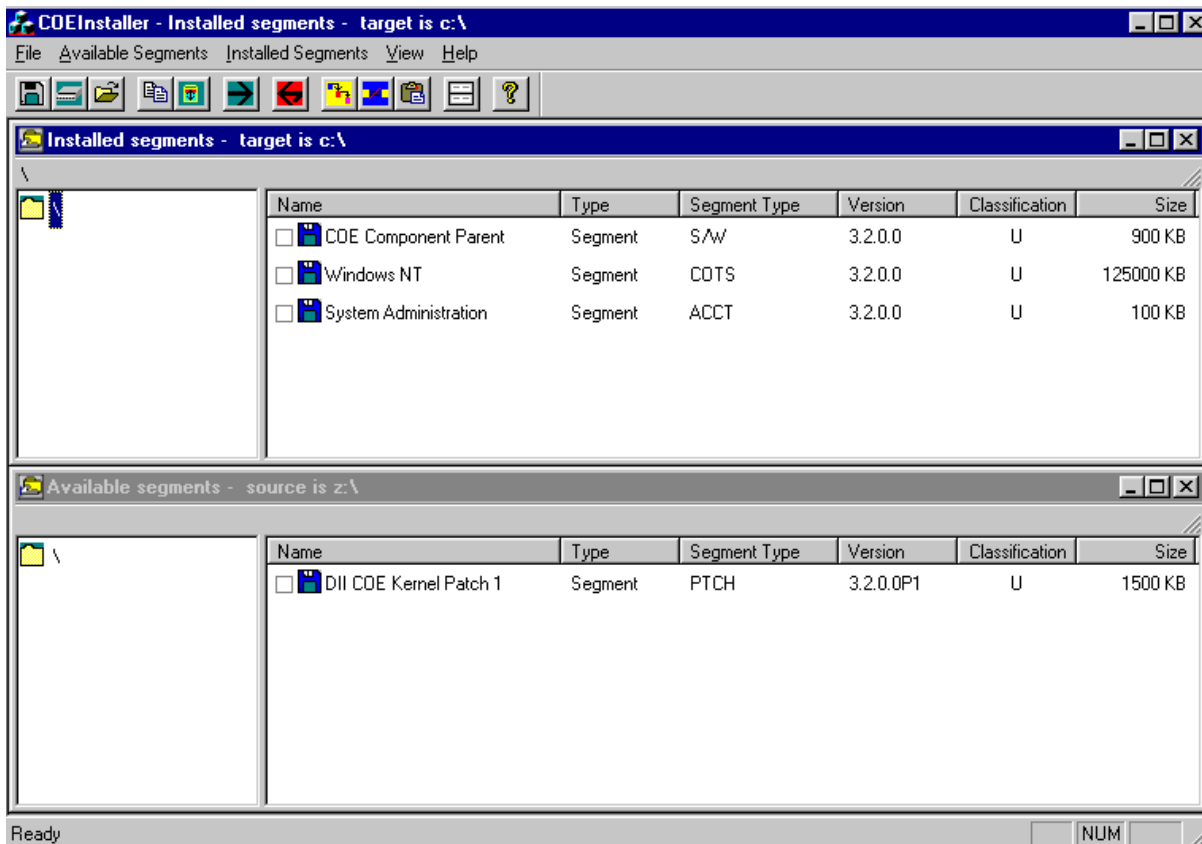


Figure 1. DII COE Installer Window

- STEP 5: Select the Available Kernel Patch Segment.** Select the “*DII COE Kernel 3.2.0.0 Patch 1*” segment in the ‘Available Segments’ panel of the ‘DII COE Installer’ window. An ‘X’ will appear in the check box to indicate the segment as selected.
- STEP 6: Display required segments.** Click on the ‘Requires’ button (which is yellow in color containing 3 small diagonal squares) to display a list of the segments that must be installed before installing the “*DII COE Kernel 3.2.0.0 Patch 1*” segment. The ‘Requires’ window will appear (Figure 2) and you will see the “COE Component Parent” segment in the window. Click on the Close button when finished.

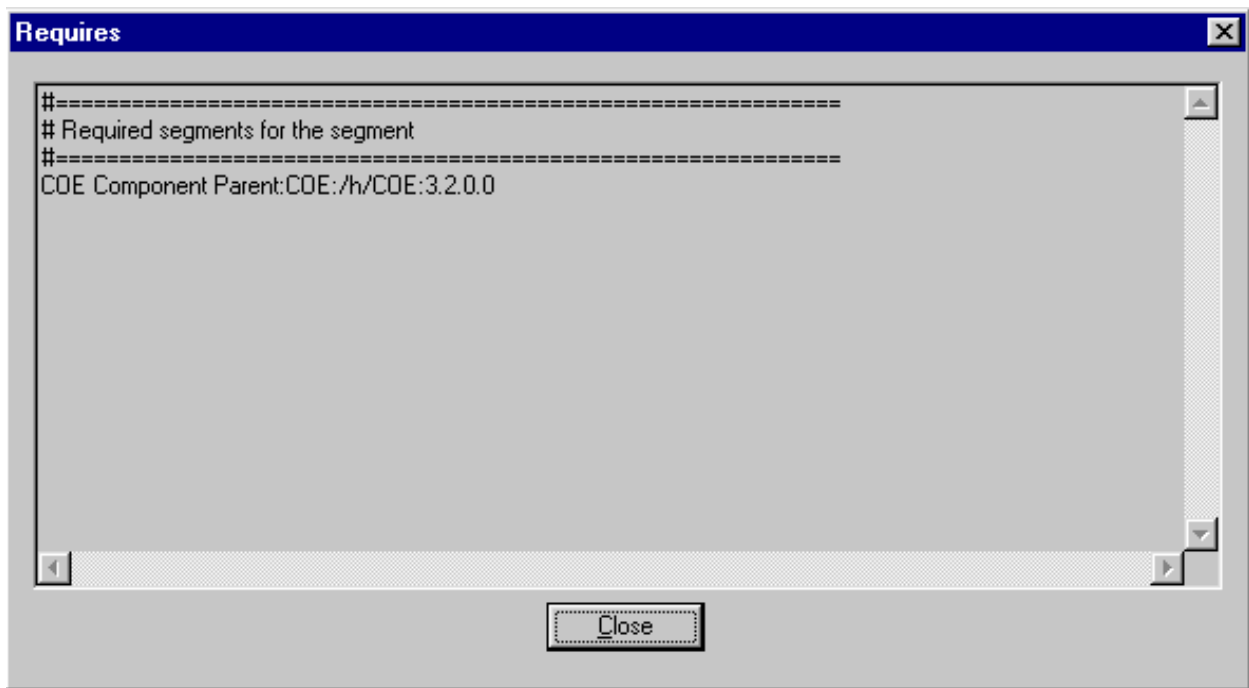


Figure 2. Required Segments Window

**NOTE:** The COE Component Parent segment was installed as part of the DII COE Kernel Version 3.2.0.0.

**NOTE:** You do not need to click on the Conflicts button in the Installation Segments panel because the “*DII COE Kernel 3.2.0.0 Patch 1*” segment has no conflicting segments.

**STEP 7: Display release notes for the segment.** Ensure the “DII COE Kernel 3.2.0.0 Patch 1” segment is still selected. Click on the Release Notes button (containing an icon of a clipboard with a note attached) to display information about the segment. The Release Notes window appears (Figure 3). Click on the Close button when you are done.

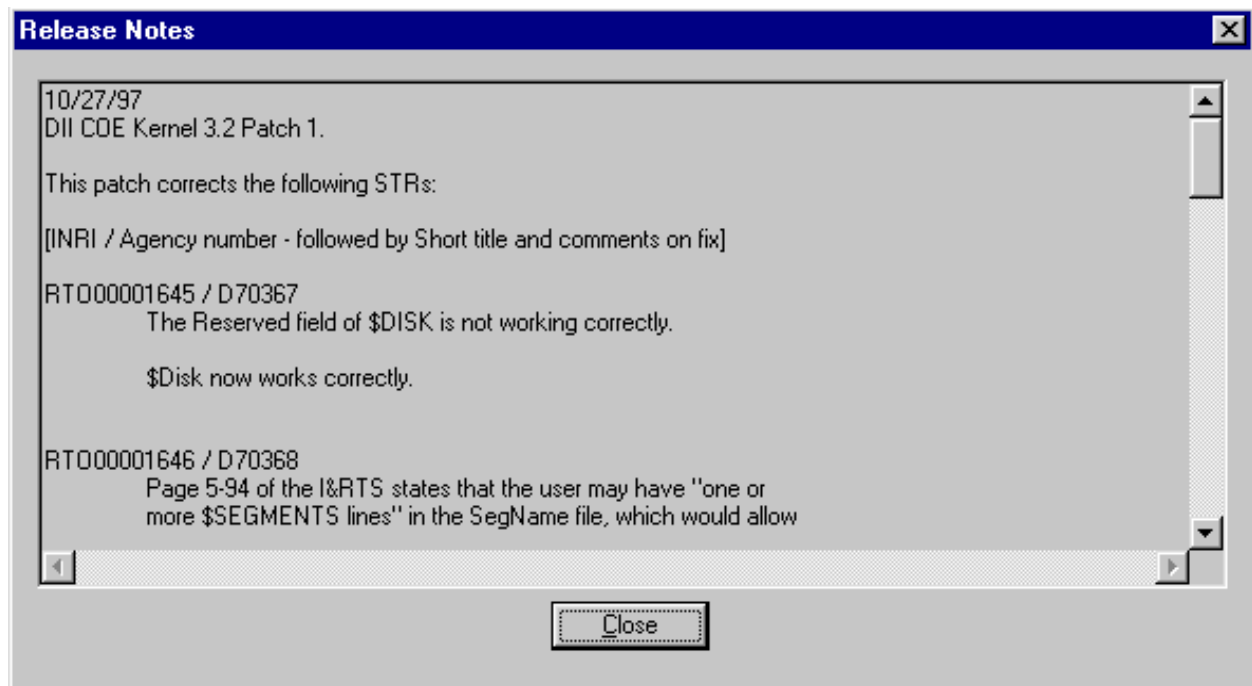


Figure 3. Release Notes Window

**STEP 8: Select the target device.** Ensure the DII COE Kernel Version 3.2.0.0 Patch 1 is still selected. Click on the arrow key to select the target device from the Target Drive field. Only non-removable drives are available for installation.

**NOTE:** The system automatically reserves a space capacity of 80 percent for disk usage on each available hard disk to allow for segment growth. Click on the Disk Space Override button if you want to override this space restriction. The Disk Space Override window then appears (Figure 4), which allows you to modify the reserved disk space for this installation.

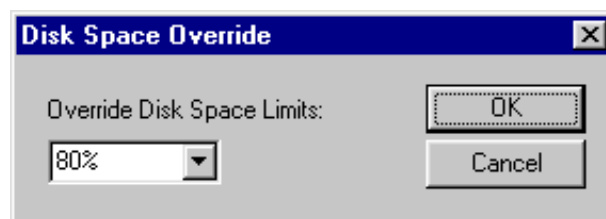


Figure 4. Disk Space Override Window

- STEP 9: Install the DII COE Kernel Version 3.2.0.0 Patch 1 segment.** Click on the Install button (containing a green, right arrow) to begin the installation process for the DII COE Kernel Version 3.2.0.0 Patch 1 segment. Once the DII COE Kernel 3.2.0.0 Patch 1 segment is installed, it will appear in the Currently Installed Segments panel of the DII COE Installer window.
- STEP 10: Display the installation log.** Click on the Installation Log button (containing an icon of two pages) once the installation is complete to display the window shown in Figure 5.

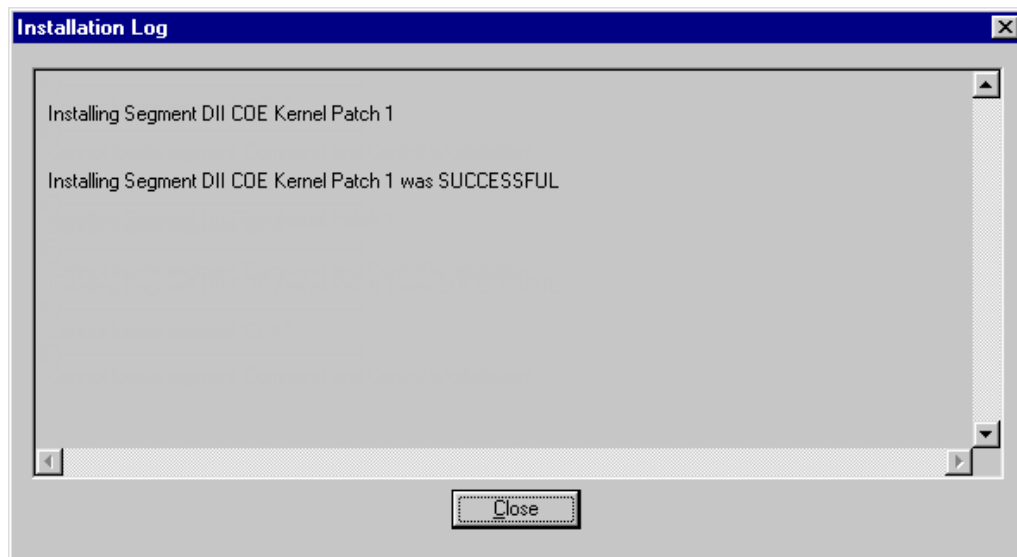


Figure 5. Installation Log Window

- STEP 11: Exit the DII COE Installer window.** From the menu bar, click on the “File” option. A drop-down list of options will appear. Select “Exit”. A dialog box appears with the following prompt:

Are you sure you wish to exit the DII COE Installer?

Click on the YES button to exit the DII COE Installer window.

**NOTE:** After you install the “DII COE Kernel Version 3.2.0.0 Patch 1” segment, you *must* close the DII COE Installer window and re-open the program for all of the patch changes to be successfully applied. It is recommended that you do this before installing any additional segments. After closing the DII COE Installer window, you can re-open it by clicking on the Start button, selecting Programs, then selecting System Administration group, and finally selecting the DII Installer icon to run the DII COE Installer again.

### **4.3 Installation of Upgrades**

Not applicable.

### **4.4 Installation Verification**

Once the “DII COE Kernel Version 3.2.0.0 Patch 1” segment is installed, it appears in the ‘Installed Segments’ panel of the ‘DII COE Installer’ window.

### **4.5 Initializing the Software**

No initialization is required for the DII COE Kernel Version 3.2.0.0 Patch 1. Once the software has been loaded, the user must close and exit the DII COE Installer and restart the application before any changes made to the DII COE Installer will take effect. All other DII COE Kernel utilities will take effect immediately.

### **4.6 List of Changes and Enhancements**

The DII COE Kernel Version 3.2.0.0 Patch 1 for Windows NT 4.0 encompasses the following changes:

Multiple account groups are supported. That is, a segment can now belong to more than one account group as long as it satisfied the requirements specified in Section 5.5.32 of page 5-89-90 of the I&RTS manual.

COEInstaller disk space reserve now works correctly. The COEInstaller tool properly processes the Reserve field of the \$DISK descriptor in the segment’s SegInfo file.

The COEInstaller tool has been modified to force the operator to click the OK button in order to exit. To prevent undesired COEInstaller exit, the tool no longer defaults to OK when a carriage return is entered.

For additional information on changes and enhancements made to the DII COE Kernel 3.2.0.0 Patch 1, see the *DII COE Software Version Description for the Kernel Version 3.2.0.0 Patch 1*.

### **4.7 Important Considerations**

Copyright Inter-National Research Institute, Inc. (1997) All Rights Reserved. This material may be reproduced by or for the U.S. Government pursuant to the copyright license under the clause at DFARS 252.227-703 (OCT 1988). Release and duplication is authorized for DoD agencies and their contractors.

## **5. Notes**

The following acronyms and abbreviations are used in this document.

COE	Common Operating Environment
DII	Defense Information Infrastructure
IP	Installation Procedures
OSC	OSF Support Center
SVD	Software Version Description.

This page intentionally left blank.